

Product Data Sheet

Product Name: AMPA receptor modulator-10

Cat. No.: GC79510

Chemical Properties

Cas. No. 620940-01-4

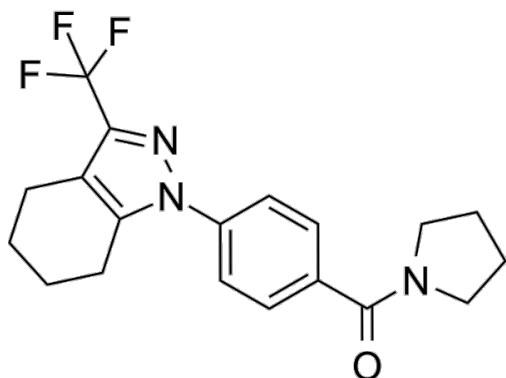
Formula $C_{19}H_{20}F_3N_3O$ M.Wt 363.38

Solubility DMSO: 12.5 mg/mL (34.40 mM; Need ultrasonic) Storage Store at 4°C, stored under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

AMPA receptor modulator-10 (Compound 9a) is an orally active AMPA receptor (AMPA) positive allosteric modulator. AMPA receptor modulator-10 exhibits potent activity (pEC₅₀ = 5.0) on the

Caution: Product has not been fully validated for medical applications. For research use only.

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GluA2 subtype of AMPAR, significantly enhancing glutamate-induced calcium influx and current responses. AMPA receptor modulator-10 can reverse the memory impairment induced by Scopolamine and enhance cognitive function. AMPA receptor modulator-10 can be used for the research of neurological disease, such as schizophrenia [1].

References:

[1]. Ward SE, et al. Integration of lead optimization with crystallography for a membrane-bound ion channel target: discovery of a new class of AMPA receptor positive allosteric modulators. J Med Chem. 2011 Jan 13;54(1):78-94.

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